Alicia Korol
Data Visualization Samples
March 12, 2018

ggplot2 density plot in R

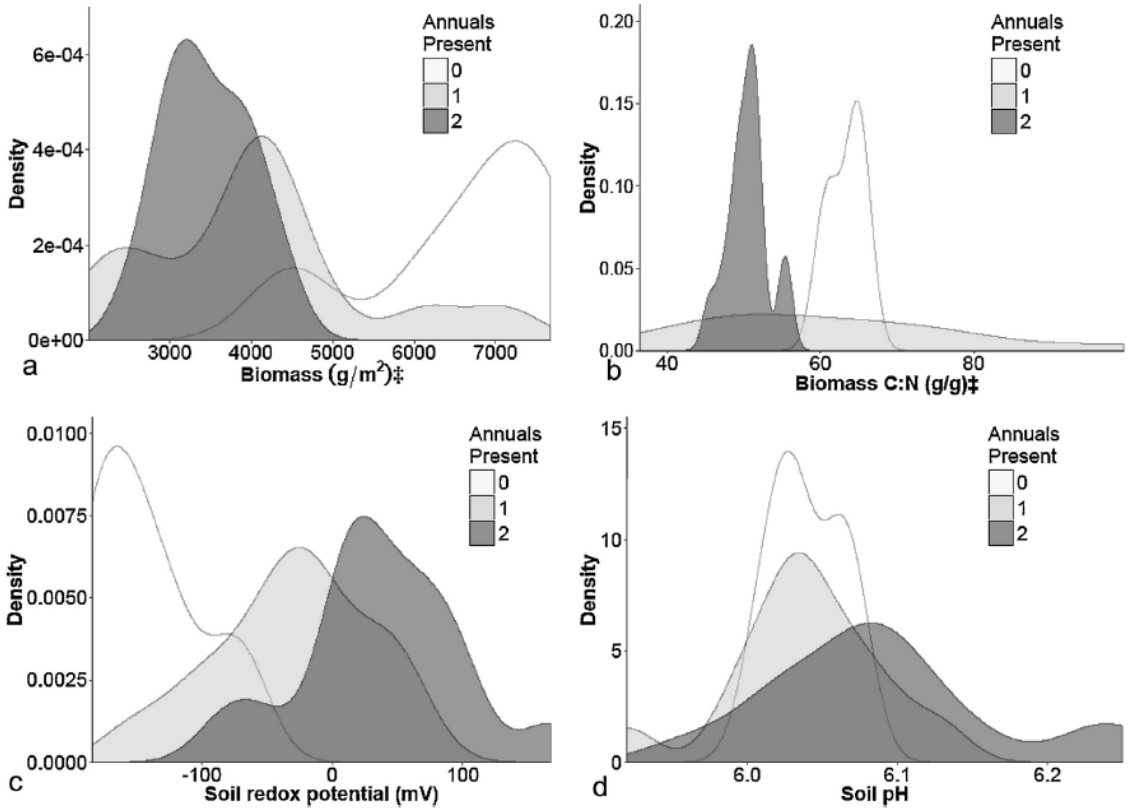


Fig. 3. Density plots of mesocosm plant characteristics and soil properties partitioned by the number (0–2) of annual species (*E. obtusa* and *M. ringens*) present. Linear regression statistics not shown in figures. ‡Variable was log10 transformed prior to statistical analysis.

ggplot2 scatterplot in R

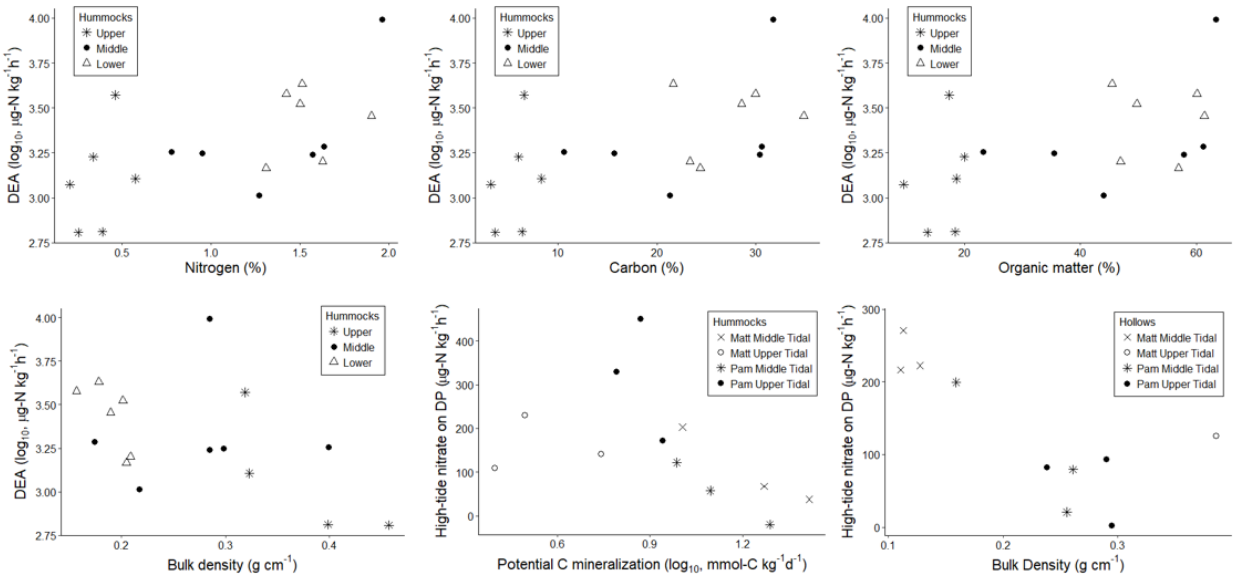
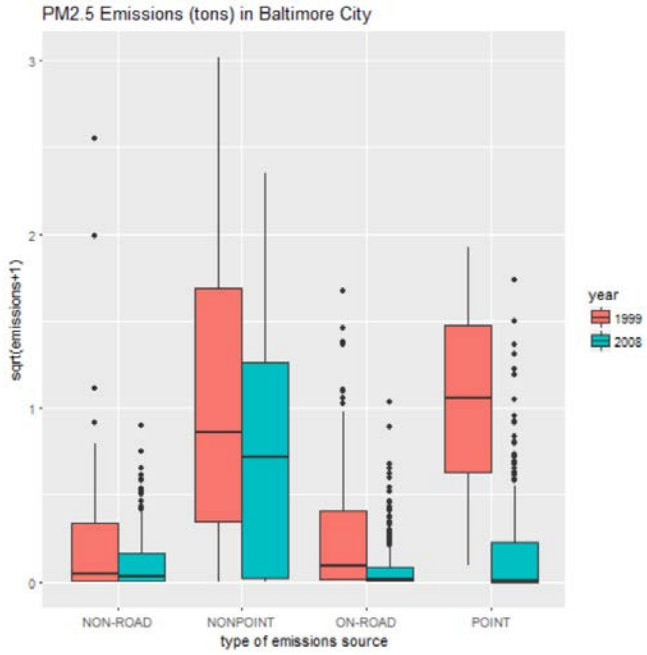
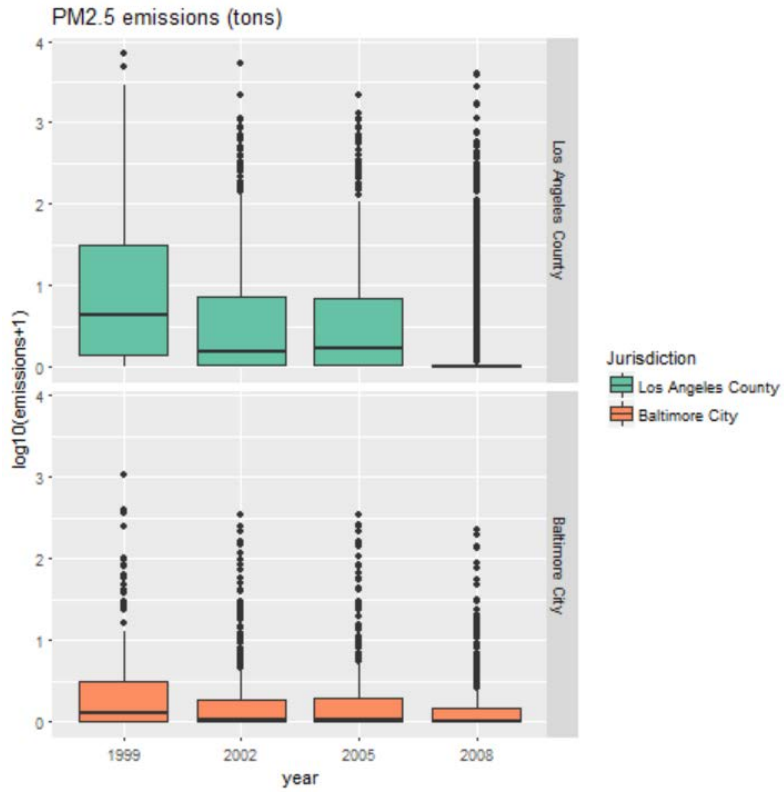


Fig. 5 Scatterplots showing statistically-significant associations (Table 7) of denitrification enzyme activity (DEA) and the effect of high tide on denitrification potential (DP) with soil biogeochemical properties and processes by microtopography

ggplot2 boxplots in R





Default plots in R

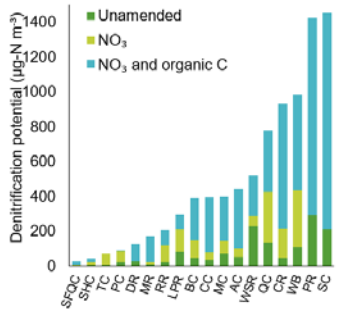


Figure 4. Gains in denitrification potential with two nutrient amendments. Site acronyms: Antietam Creek (AC), Back Creek (BC), Catoctin Creek (CC), Conestoga River (CR), Difficult Run (DR), Little Patuxent River (LPR), Mattaponi River (MR), Morgan Creek (MC), Patuxent River (PR), Polecat Creek (PC), Quittapahilla Creek (QC), Rappahannock River (RR), Sideling Hill Creek (SHC), Smith Creek (SC), South Fork Quantico Creek (SFQC), Tuckahoe Creek (TC), Warm Springs Run (WSR), Western Branch (WB).

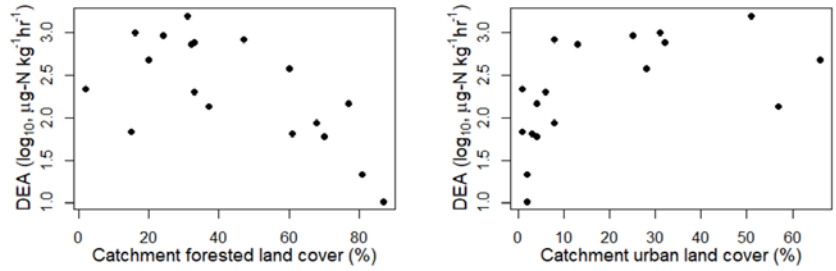
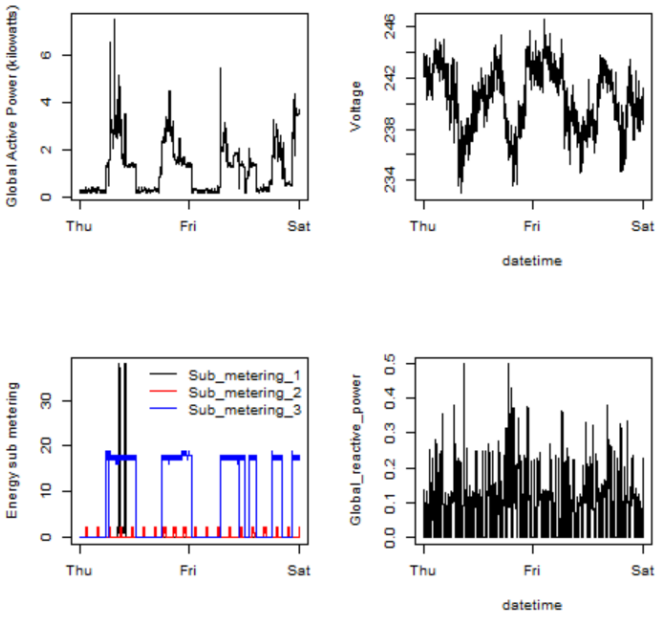
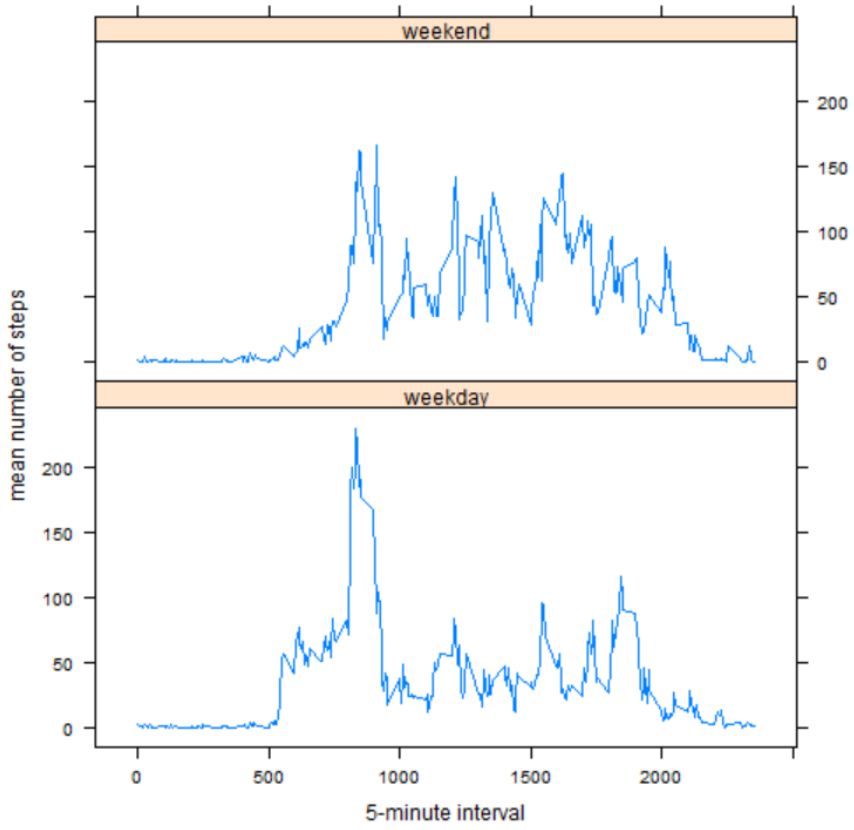


Figure 5. Scatterplots of catchment land cover (forested and urban) with denitrification enzyme activity (DEA) in spring.



Lattice plot in R



Plots in Excel

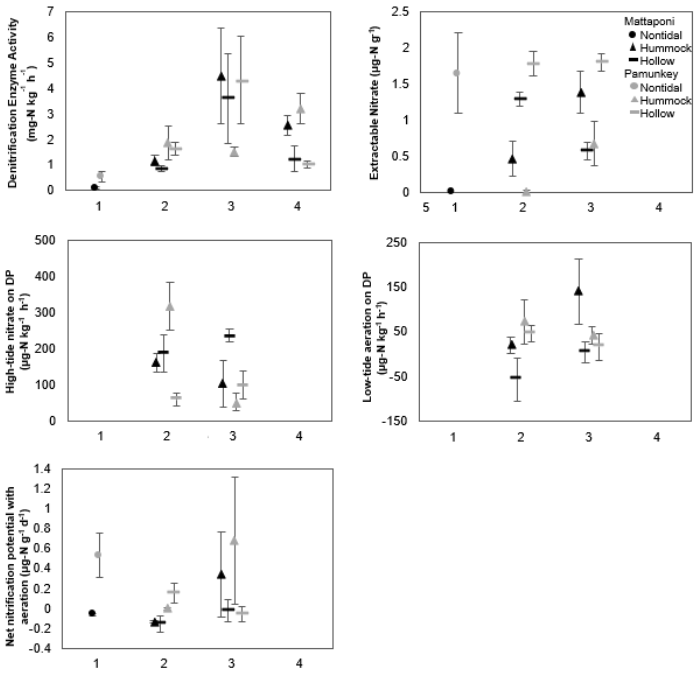


Fig. 3 Mean (± standard error) measurements by river, tidal site (1: nontidal, 2: upper, 3: middle, 4: lower), and microtopography where present (sites 2,3,4)

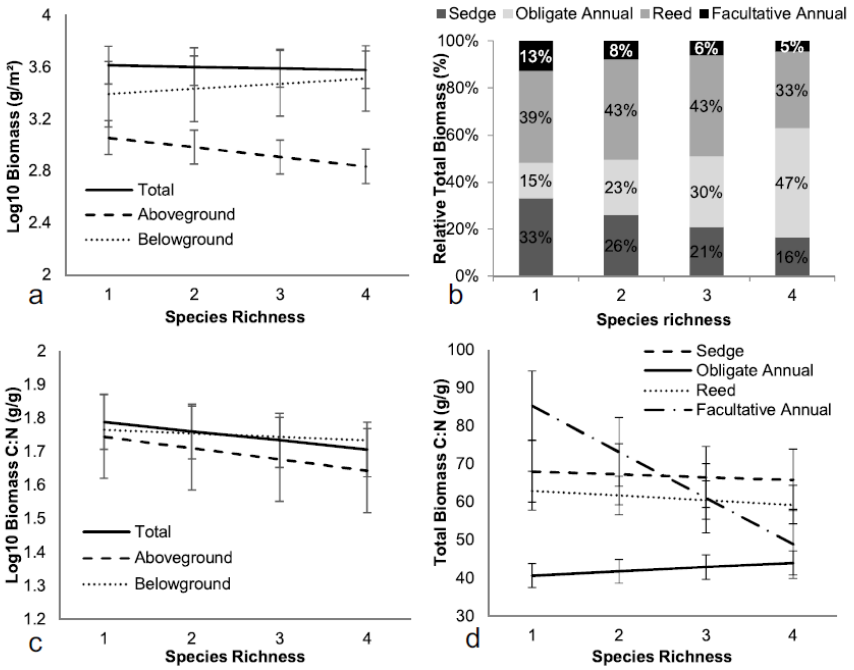


Fig. 2. Linear regression slopes of biomass and biomass C:N for the community and of the sedge (*C. vulpinoidea*), obligate annual (*E. obtusa*), reed (*J. effusus*), and facultative annual (*M. ringens*) across richness levels of the planted mesocosms: (a) community biomass production; (b) species relative contribution to total (above- and belowground) biomass production; (c) community biomass C:N; and (d) species total (above- and beowground) biomass C:N. Statistical tests performed on transformed data as presented. Error bars represent ±1 standard error of the regression slope.